



Eagle Eye

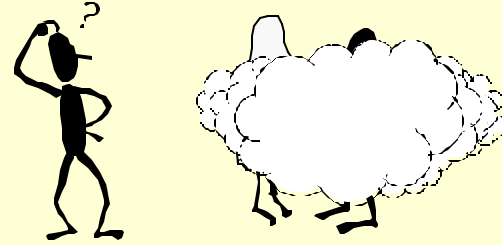


- 18th Annual Security Conference
June 2002

A three prong approach should provide significant insights

➤ Who are these guys?

- Name identifier
- Demographic links
 - DOB, Addresses, etc.



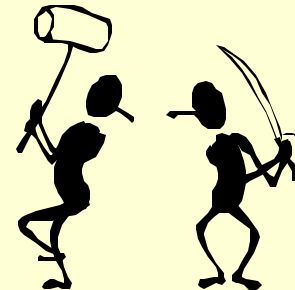
➤ Where is the Money?

- Suspect account identification
- Suspect transactions
- Source Destination and use of funds



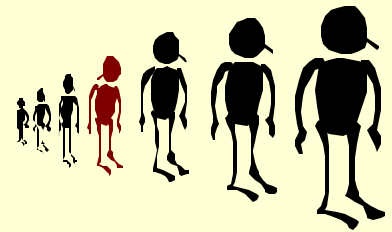
➤ How to forecast Behavior?

- Case Studies
- Data mining
- Analytical models

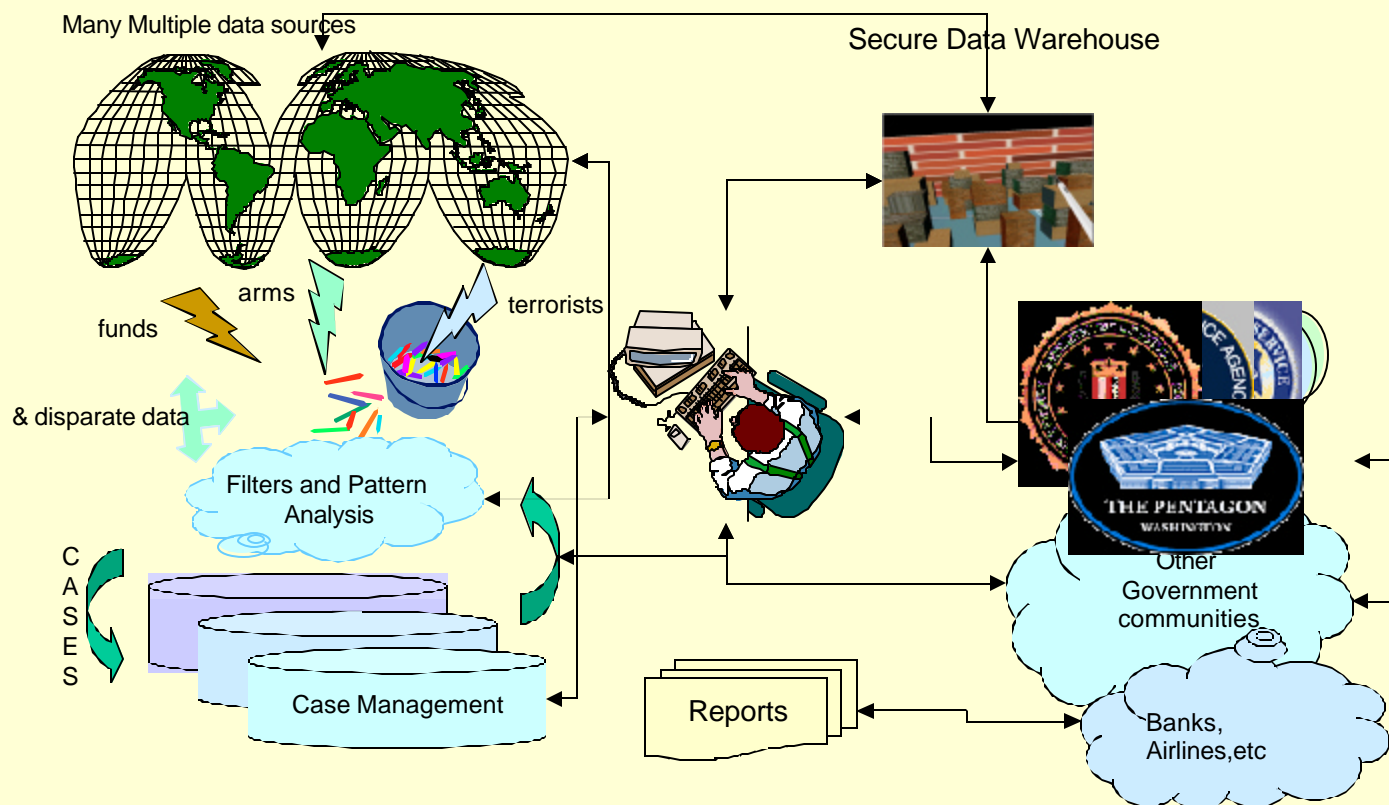


The Problem (in part)

- **WHO:** How to **identify** known Arabic terrorists based on their names,
 - spelt in various different ways
 - various synonyms or aliases?
- **BEHAVIOR:**
 - **Discovery** of unknown terrorists based on their behavior?
 - Anticipate and **forecast** their future behavior?
 - Define a key set of **leading indicators**
 - Based on previous patterns (analyzed in multiple ways)
 - That are associated with specific threats?
 - Specific individuals or groups of individuals
 - Enabling Tracking, Interdiction - and other **preemptive actions**
 - Disparate sources of information and quality
 - Access to the data in a rapid response mode
- **Learn, Iterate & Revise** models and systems



A Conceptual Framework



SII's Eagle Eye has a three prong approach



- Identification of the right person(s)
- Attribute Engine (data and tracking)
- Behavior profiling (by statistical Data Mining)
- In concert with others.

Terrorist Identification Engine - [On-Line - One to One]

File Functions Tools Window Help

Language **On Line** **Batch** **Synonyms**

Language Table C:\PROJECTS\X0001\w001 v2\X001 v3\Arabic Phonetic Rules.bt

Phonetic Lookup [] []

Compare To C:\PROJECTS\X0001\w001 v2\X001 v3\Known Terrorists.bt

Comparison Field []

Comparison Type []

Target Value []

Add to Query

Attribute Tolerances

2 Typographical Errors

1 Valid Differences

Name Matching Process

☐ Exact

☒ Phonetic

☐ Synonyms/Aliases

☒ Probabilistic 90

Comparison Files

☒ One to One

☐ One to Many

Comparison Type

☒ Name

☐ Address

☐ Date of Birth

☐ Passport #

☐ Account Bal.

Field	Comparison Type	Comparison Value	Typo Tol	Val Diffs Tol	Exact
Date of Entry	String	2000	2	1	
Known Names	Name	mohamed	2	1	No

Compare

Selected Search Attributes:

Known Names	Date of Entry	Passport #	194	S
DEREK BIN NOR MOHAMAD	7/28/2000 0:00	71335731	486240340	5
DR MOHAMMED KADWANI	1/18/2000 0:00	43238059	316125960	4
EISA MOHAMMED AL KINDI	5/5/2000 0:00	35745294	201223341	3
FAZEL MOHAMED AHMED SULAIMAN	8/17/2000 0:00	82671889	527093745	5
MOHAMED CUNNINGHAM KANE	3/2/2000 0:00	82534323	545104134	5
MOHAMED KENNETH ELBORNE	1/18/2000 0:00	12368019	119329915	3
MOHAMED STEWART LAYCOCK	2/10/2000 0:00	82503227	540208288	5
MOHAMMAD PHILLIP NAUDE	12/3/2000 0:00	82698929	531327007	5
MOHAMMAD ROBERT DAVY HAYHOW	5/5/2000 0:00	43326511	352056670	4
MOHAMMED SEK CHI KWOK	3/18/2000 0:00	82553251	532224450	5
MUHAMMAD AHMED	2/3/2000 0:00	35687782	266349984	3

Search Results:

Results

Records Searched

4368

Records Found

12

Time (secs)

3.45


Engines can be tailored for specific needs

In addition to the Name Identification

Many other attributes are needed for different purposes

Photo - Border Control
Identity Data - right person
Demographics -Tracking
History - Enforcement
Etc.

Eagle Eye - Suspect profile - Baseline

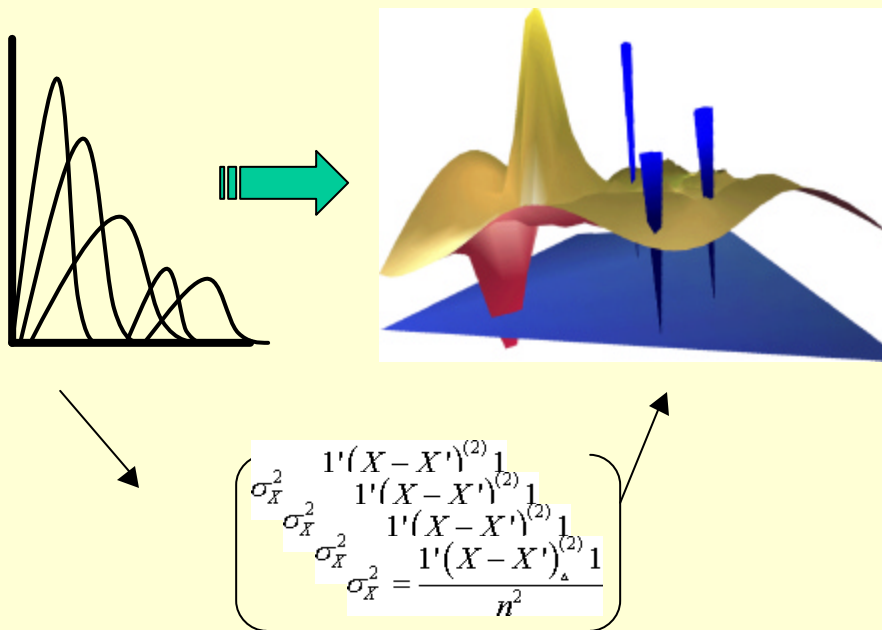
Suspect Name	Abdul Rahman Said Yasin Taher	Photo	
Suspect Status	Wanted		
Place of Birth	Bloomington, Indiana		
Date of Birth used	April 10, 1960	Citizenship	American
Height	5'10"	Language	unknown
Weight	180 pounds	Scars Marks	burn scar on his right thigh
Build	unknown		
Hair	Black		
Eyes	Brown		
Sex	Male		
Complexion	Olive		
Driving License	Illinois 444-555-1234		
Passport Country	USA, Palestine		
Passport Number	USA 444444444, Pal 777777777		
Port of entry	London, Ontario		

Medical Information	epileptic
Medical history	Shed records
Remarks	Abdul Rahman Yasin is wanted for his alleged participation in the terrorist bombing of the World Trade Center, New York City, on February 26, 1993, which resulted in six deaths, the wounding of numerous individuals, and the significant destruction of property and commerce.
Caution	consider armed and dangerous

Last known location: Yemen Last known status: Active in making bombs for cells

Navigation: home | edit | Baseline | Finance | Name | Attribute

Financial Behavior can be identified



- Discovery techniques can produce indicators
- The terrorists have to use the financial system
- Behavioral patterns of individuals and groups can indicate future behavior

Summary

- Our goal is to contribute: (no supplier has all the answers)
 - In identifying Arabic names to pre screen potential terrorists
 - In developing specific engines
 - tools to discover previously unknown suspects
 - predictor behavior to anticipate the actions of known terrorists
- SI can assist in this process by:
 - Providing Name identification software
 - Providing the attribute engine
 - Providing behavioral analysis expertise
 - Model development

.....*in consortia with others*

No Enterprise Is an Island

- Strategic Insights - brings the best experts from industry and academic sources into the project teams - though its collaborative network
- Maintaining Best Practice requires the integration of Knowledge from;
 - Clients
 - Consultants
 - Other Experts
- Our Services
 - Behavioural Science and Strategic Decisions
 - Knowledge Management and Leadership
 - Market and Opportunity planning and research
 - IT Strategy and Economics
 - International Corporate Positioning
- Strategic results through client - partner teams

***How often have you just wanted a different view
rather than one more large project?***

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Dick Stewart

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• Reston & London